PATENT COOPERATION TREATY

From the INTERNATIONAL PRELIMINARY E	EXAMINING AUTHORITY	EGEIVED 19 SEP 2005 DPC	Т
To: Terry Instone Reckitt Benckiser plc Group Patents Department Dansom Lane Hull HU8 7DS GRANDE BRETAGNE	K0 K4 19/9	NOTIFICATION OF TI THE INTERNATIONA REPORT ON PAT	L PRELIMINARY ENTABILITY
	NUMBER: 1293PS 4	Date of mailing (day/month/year) 16.09	9.2005
Applicant's or agent's file reference .11293P5 WO/JMH	Die RY X	IMPORTANT NO	TIFICATION
International application No. PCT/GB2004/003186	International filing date	lay/month/year) Priority date 23.07.200	(day/month/year) 03
Applicant RECKITT BENCKISER (AUST	The second section of the second section is a second section of the section of th	al.	
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- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary report on patentability and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the international preliminary examining authority:

9)

European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 Authorized Officer

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PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

	licant's or agent's file reference 293P5 WO/JMH	FOR FURTHER ACTION	See Form PCT/IPEA/416		
	rnational application No. T/GB2004/003186	International filing date (day/month/year) 22.07.2004	Priority date (day/month/year) 23.07.2003		
	mational Patent Classification (IPC) o 1L9/03, A01M1/20	r national classification and IPC	-		
App RE	licant CKITT BENCKISER (AUSTRA	ALIA) PTY LIMITED et al.			
1.	Authority under Article 35 and t	transmitted to the applicant according to			
2.	This REPORT consists of a tot	al of 7 sheets, including this cover sheet			
3.	This report is also accompanie	d by ANNEXES, comprising:			
	a. Sent to the applicant an	d to the International Bureau) a total of 9	sheets, as follows:		
	 sheets of the description and/or sheets contain Administrative Instruction 	ining rectifications authorized by this Aut	e been amended and are the basis of this report chority (see Rule 70.16 and Section 607 of the		
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.				
	b. (sent to the International	al Bureau only) a total of (indicate type an tables related thereto, in computer reada ace Listing (see Section 802 of the Admin	nd number of electronic carrier(s)) , containing a able form only, as indicated in the Supplemental instructions).		
4.	This report contains indications	relating to the following items:			
	☐ Box No. I Basis of the	noinion			
	Box No. II Priority				
ļ		hment of opinion with regard to novelty, i	nventive step and industrial applicability		
	Box No. IV Lack of unity				
	⊠ Boy No. V Reasoned st	atement under Article 35(2) with regard t citations and explanations supporting su	o novelty, inventive step or industrial ch statement		
	☐ Box No. VI Certain docu				
		cts in the international application			
		rvations on the international application			
	to of submission of the demand	Date of compl	etion of this report		
Da	te of submission of the demand		·		
17	.05.2005	16.09.2005			
Na pre	me and mailing address of the interna eliminary examining authority:	tional Authorized Of	ficer		
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/GB2004/003186

		IAP20 REGULE TO 20 JAN 2006
	Box No. I Basis of the report	
1.	With regard to the language , this filed, unless otherwise indicated	s report is based on the international application in the language in which it was under this item.
	which is the language of a tr international search (und	slations from the original language into the following language , ranslation furnished for the purposes of: ler Rules 12.3 and 23.1(b)) tional application (under Rule 12.4) examination (under Rules 55.2 and/or 55.3)
2.	With regard to the elements* of have been furnished to the receireport as "originally filed" and are	the international application, this report is based on (replacement sheets which ving Office in response to an invitation under Article 14 are referred to in this e not annexed to this report):
	Description, Pages	
	1-14	as originally filed
	Claims, Numbers	
	1-67	received on 17.05.2005 with letter of 16.05.2005
	Drawings, Sheets	
	1/4-4/4	as originally filed
	a sequence listing and/or an	y related table(s) - see Supplemental Box Relating to Sequence Listing
3.	☐ The amendments have result the description, pages the claims, Nos. ☐ the drawings, sheets/figs the sequence listing (special any table(s) related to see	: ecify):
4.	had not been made, since they he Supplemental Box (Rule 70.2(c)) the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specific any table(s) related to see	ecify): equence listing <i>(specify)</i> :
	* If item 4 applies, so	ome or all of these sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/GB2004/003186

	Вох	No. IV Lack of unity of inv	ention		·
1.	×	In response to the invitation to ☐ restricted the claims. ☐ paid additional fees. ☐ paid additional fees under ☐ neither restricted nor paid a	protest	•	ditional fees, the applicant has:
2.		This Authority found that the re Rule 68.1, not to invite the app	equirer olicant	nent of unity to restrict or	of invention is not complied with and chose, according to pay additional fees.
3.	This	s Authority considers that the re	equiren	nent of unity	of invention in accordance with Rules 13.1, 13.2 and 13.3
		complied with.			
	⊠	not complied with for the follow	ving re	asons:	
	see separate sheet				
4.	Cor	nsequently, this report has been	n estab	lished in res	spect of the following parts of the international application:
		all parts.			
	\boxtimes	☑ the parts relating to claims Nos. 1-12,28-56.			
_	Bo	x No. V Reasoned statement Dicability; citations and expla	nt und mation	er Article 3 ns supporti	5(2) with regard to novelty, inventive step or industrial ng such statement
1.		tement			
	Nov	velty (N)	Yes: No:	Claims Claims	1,28,42
	Inv	entive step (IS)	Yes: No:	Claims Claims	1-12,28-56
	Ind	ustrial applicability (IA)	Yes: No:	Claims Claims	1-12,28-56

2. Citations and explanations (Rule 70.7):

see separate sheet

Re Item IV

Lack of unity of invention

1.1 The application lacks unity within the meaning of Rule 13 PCT because the following separate inventions are not so linked as to form a single general inventive concept:

Table 1: different inventions in the present set of claims

inv	claims	subject-matter			
(1)	1-12	device with features (a),(b),(b1) ⁽¹⁾ ,(device with features (a),(b),(b1) ⁽¹⁾ ,(b2) ⁽²⁾ ,(c),(c1),(c2),(c3),(d),(e)		
(2)	13-27	device with features (a),(b),(b1) ⁽¹⁾ ,(b2) ⁽³⁾ ,(c),(c1), (f) ⁽⁴⁾			
(3)	28-56	device with features (a),(b),(b1) ⁽¹⁾ ,(b2) ⁽²⁾ ,(c)[clm.31], (f) ⁽⁵⁾ ,(g),(h),(h1),(i)			
(4)	57-64	device with features (a),(b), (h),(i),(i1) ⁽⁶⁾		(h),(i),(i1) ⁽⁶⁾	
(5)	65,66	device with features (a),(b),	(c),	(i),(k)	
(6)	67	device with features (a),(b),	(c),	(k)	

wherein features (a)-(k) correspond to:

- (a) means for storing chemicals;
- (b) wick means;
 - (b1) in [continuous⁽¹⁾] contact with chemical formulation;
 - (b2) located within⁽²⁾ / in contact with⁽³⁾ support means (c);
- (c) wick support means;
 - (c1) with aperture;
 - (c2) formed by a first portion and a second portion affixable to the first portion;
 - (c3) the wick means being located between the first and second portions of the wick support means;
- (d) means to co-locate aperture (c1) with heater means (which do not belong to device);
- (e) direct contact of heater means with wet wick;
- (f) indirect contact of heater means with wet wick through support means⁽⁴⁾ / substrate⁽⁵⁾;
- (g) releasably insertable into heater means;
- (h) housing enclosing portion of wick;
 - (h1) having aperture;
- (i) substrate



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- (i1) in contact with wick means, [and housing, storing means]⁽⁶⁾;
- (i2) having first layer in first material;
- (j) storing means and housing bond to substrate;
- (k) other

Inventions (1)-(6) are generally linked by the concept of a vaporizing device comprising a chemical formulation storage means, a wick, and a wick support means, suitable for being used together with a heater source, which is not novel --let alone inventive--. In particular, inventions (1) and (2) only are characterized by a wick support means having an aperture; the sole device defined such that the heat may be applied directly to the wick (feature (e)) is the one called for in claims 1-12 (cf. Figures 1-3); in the remaining devices heat is applied indirectly to the wick (feature (f)), or it is not specified). Consequently, none of inventions (2)-(6) --and in particular invention (3)-- is so linked with invention (1) as to form a single general inventive concept contrary to the requirements of Rule 13 PCT EPC.

As the applicant paid the search fees for inventions 1 and 3, examination is carried out for the first and third groups of inventions (claims 1-15, 31-59). The applicant is invited to limit the application accordingly, i.e., the other inventions are to be excised from the claims, description and drawings if any.

1.2 It is hard to conceive that "claims 60 to 67 [57-64] just relate to the method of constructing the device which is defined by claims 31 to 59 [28-56]", since the device of claim 31 comprises inter alia a heater unit absent in claim 60,

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- The present application does not meet the requirements of Article 6 PCT for the following reasons. The heater means are not part of the device called for in present claim 1.
- 1.1 The features expressed with respect to a heater means are construed broadly as "suitable for...", e.g., direct contact between the heater means and the wick (feature (e))

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is considered fulfilled if there is an aperture permitting contact of the wick with a heater means. Similarly, means to co-locate aperture (c1) with heater means (feature (d)) is considered anticipated by any device, since said positioning means could simply consist of the shape of the device matching a cavity comprising the heater means.

- 1.3 Claim 39 includes all the features of claim 25. Hence, claim 39 should be reformulated as a claim dependent on claim 25, cf. Rule 6(4) PCT.
- 1.4 The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).
- 2 The following documents were cited in the search report:
 - D1: EP-A-1 270 021 (ZOBELE HOLDING S P A) 2 January 2003 (2003-01-02)
 - D2: US-A-5 945 094 (MARTIN JOHN ET AL) 31 August 1999 (1999-08-31)
 - D3: US-A-5 903 710 (MARTIN JOHN ET AL) 11 May 1999 (1999-05-11)
 - D4: US-A-6 123 935 (MARTIN JOHN ET AL) 26 September 2000 (2000-09-26)
 - D5: EP-A-0 722 742 (GLOBOL GMBH) 24 July 1996 (1996-07-24)
 - D6: WO 98/46284 A (JOHNSON & SON INC S C) 22 October 1998 (1998-10-22)
 - D7: DE 41 31 613 A (GLOBOL GMBH) 25 March 1993 (1993-03-25)
 - D8: US 2004/076410 A1 (ZOBELE FRANCO ET AL) 22 April 2004 (2004-04-22)
- The device proposed in claim 1 of the present application cannot be considered as novel (Article 33(2) PCT) for the following reasons. The device of claim 1 comprises features (a),(b),(b1)⁽¹⁾,(b2)⁽²⁾,(c),(c1),(d),(e) as defined in point IV-1 supra. D1-D5 anticipate all these features as illustrated in Table 2 below.

Table 2: features called for in present claim 1 and disclosed in D1-D5

feature	D1	D2	D3	D4	D5
(a)	#7	#12,30	#22	#18	#5
(b)	#3	#14	#20	#16	#3
(b1)	cf. Fig.3	cf. Fig.1,4&5	cf. Fig.1	cf. Fig.1	cf. Fig.2&3
(b2)	cf. Fig.3	cf. Fig.1,4&5	cf. Fig.1	cf. Fig.1	cf. Fig.2&3
(c)	#4,5	#20,21	#15,25	#14,25	#15,16
(c1)	#15,8	#27	#28	#26, cf. Fig.1	release #10

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(c2)	4&5	20,21	15,25	14,25	15,16
(c3)	cf. Fig.3	cf. Fig.3&4	cf. Fig.1	cf. Fig.1	cf. Fig. 2&3
(d)	[0027]&[0045], cf. V-1.1	cf. Fig.2, #25	cf. Fig.1, #17&26	#36	#30
(e)	[0027]&[0045],	cf. Fig.2, #25	cf. Fig. 1	#36	#30

- The dependent claims 2-12 do not seem to contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step.
- The device proposed in claims 28 and 42 of the present application cannot be considered as novel (Article 33(2) PCT) for the following reasons. D6, D7, and D8 (the latter, published between priority and filing dates of the present application, is not considered as prior art under the PCT) disclose all the features of claims 31 and 45 as listed n Table 3 below.

Table 3: features called for in present claim 31&45 and disclosed in D6-D9

feature	D6	D7	D8 (intermediate doc)
(a)	15	18	7
	24 in contact w/ 25	30 in contact w/ 36	3
(f) ⁵	16; heater 12	back of 20	5
(h)	see area around 32	25	9
(i),(i1) ⁶	16	back of 20	5

see footnotes of Table 1

The dependent claims 29-41 and 43-56 do not seem to contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step.

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CLAIMS:

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1. A device for enabling a chemical formulation to be vapourized into an atmosphere comprising:

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means for storing the chemical formulation;
wick means in continuous contact with the chemical formulation;
wick support means for supporting the wick means and having an aperture;
the wick means located within the wick support means;

means to locate the wick support means such that the aperture of the wick

support means is co-located with a heater means;

wherein:

the wick means is wet by the chemical formulation and upon contact with the heater means vapourizes the chemical formulation through the aperture of the wick support means;

the wick support means is formed by a first portion and a second portion affixable to the first portion; and

the wick means is located between the first portion and the second portion of the wick support means.

- 20 2. A device according to claim 1 wherein the aperture is located in the first portion of the wick support means.
- 3. A device according to claim 2 wherein the location means locates each of the first portion and the second portion of the wick support means such that the aperture of the first portion of the wick support means is co-located with the heater means.
 - 4. A device according to claim 3 wherein the storage means is located on the second portion or the first portion of the wick support means.
- 30 5. A device according to claim 4 wherein the wick means is substantially elongate having a first portion in continuous contact with the chemical formulation and a second portion in contact with the heater means.
- 6. A device according to claim 5 wherein the heater means vapourizes the chemical formulation in the vicinity of the second portion of the wick means through the aperture of the first portion of the wick support means.

- 7. A device according to claim 6 wherein the second portion of the wick support means has an aperture co-located with the heater means to enable the chemical formulation to vapourize into the atmosphere through the aperture of the second portion of the wick support means.
- 8. A device according to claim 7 wherein the wick means has a resistance to flow of chemical formulation from the chemical formulation storage means sufficient to enable the second portion of the wick means to become wet after it has been dried by vapourization of the chemical formulation within a cycle of an applied pulse or pulses to the heater means.
- A device according to claim 8 adapted to be received by portable apparatus having the heater means, the heater means being supplied with power from a portable
 power supply.
 - 10. A device according to claim 8 adapted to be received by apparatus having the heater means, the heater means being supplied with power from a mains power supply.
- 20 11. A device according to claim 9 or claim 10 wherein the location means is a pair of indentations, one on each side of the wick support means, that act in an interference fit with corresponding projections on the apparatus, which when engaged provide an indication to a user that the device is correctly located with respect to the apparatus.
- 25 12. A device according to claim 9 or claim 10 wherein the location means is a pair of projections, one on each side of the wick support means, that act in an interference fit with corresponding indentations on the apparatus, which when engaged provide an indication to a user that the device is correctly located with respect to the apparatus.
- 30 13. A device for enabling a chemical formulation to be vapourized into an atmosphere comprising:

means for storing the chemical formulation;

wick means in continuous contact with the chemical formulation;

wick support means for supporting the wick means and in contact with the wick

35 means, the wick support means having an aperture;

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wherein the wick means is wet by the chemical formulation and, upon application of heat from a heater means to the wick support means indirectly heats the wet wick means and thereby vapourizes the chemical formulation into the atmosphere through an exposed portion of the wick means and the aperture of the wick support means;

wherein further the device is releasably insertable into a heater unit having the heater means.

- 14. A device according to claim 13 wherein the exposed portion of the wick means 10 is one end or one edge of the wick means.
 - 15. A device according to claim 13 or claim 14 wherein the whole device has heat applied thereto in order to vapourize the chemical formulation.
- 15 16. A device according to claim 13 or claim 14 wherein the exposed portion of the wick means has heat applied thereto in order to vapourize the chemical formulation.
 - 17. A device according to any one of claims 13 to 16 wherein the wick support means is formed by a first portion and a second portion affixable to the first portion.
 - 18. A device according to claim 17 wherein the wick means is located between the first portion and the second portion of the wick support means.
- 19. A device according to claim 18 wherein the storage means is located on the second portion of the wick support means.
- 20. A device according to claim 19 wherein the wick means is substantially elongate having a first portion in continuous contact with the chemical formulation and a second portion in communication with the aperture, the aperture located in either the first portion or second portion of the wick support means.
 - 21. A device according to claim 19 wherein the wick means is located substantially transverse to the wick support means and storage means.

- 22. A device according to claim 21 wherein the wick means is substantially planar and has a first edge mounted flush with a corresponding first edge of each of the first portion and second portion of the wick support means.
- 5 23. A device according to claim 22 wherein the first edge of the wick means is exposed to the atmosphere.
- 24. A device according to claim 22 or claim 23 wherein the wick means has a second edge mounted flush with a corresponding second edge of each of the first
 10 portion and second portion of the wick support means.
 - 25. A device according to claim 24 wherein the second edge of the wick means is exposed to the atmosphere.
- 15 26. A device according to any one of claims 13 to 15 wherein the wicks means is located in and separated by a partition from the chemical formulation storage means.
- 27. A device according to claim 26 wherein one or more portions of the wick means is in contact with the chemical formulation storage means across the partition in order to allow the wick means to be wet by the chemical formulation.
 - 28. A device for enabling a chemical formulation to be vapourized into the atmosphere and releasably insertable into a heating unit, the device comprising:

means for storing the chemical formulation;

- wick means for contacting the chemical formulation;
 - a housing enclosing a portion of the wick means adapted to engage and retain the device in the heater unit, the heater unit having a heater means; and
 - wick support means in contact with the wick means and proximal to the heater means when the device is inserted into the heater unit;
- wherein the wick means is wet by the chemical formulation and is heated indirectly by the wick support means to vapourize the chemical formulation through an aperture of the housing into the atmosphere.
- 29. A device according to claim 28 wherein the wick support means comprises a first layer made from a first material and a second layer made from a second material, the second layer bonded to the first layer.

- 30. A device according to claim 29 wherein the housing and storage means are made from the second material and are bonded to the second layer of the wick support means.
- 5 31. A device according to claim 30 wherein the wick means is placed on the second layer of the wick support means and the storage means is filled with the chemical formulation prior to bonding or sealing the storage means and the housing to the second layer of the wick support means.
- 10 32. A device according to claim 31 wherein the first material is crystalline PET.
 - 33. A device according to claim 31 or claim 32 wherein the second material is amorphous PET.
- 15 34. A device according to claim 31 further comprising an additional layer made from the second material covering any part of the wick means not covered by the housing or the storage means, the additional layer being bonded to the second layer.
- 35. A device according to claim 34 wherein the housing has one or more depressions to keep the wick means in contact with the wick support means.
 - 36. A device according to claim 35 wherein the first layer is heated by the heater means and subsequently the second layer and wet wick means are heated when the device is inserted into the heater unit.
 - 37. A device according to claim 36 wherein the first layer is heated by convection wherein an air gap is defined between the first layer of the wick support means and the heater means when the device is inserted into the heater unit.
- 30 38. A device according to claim 36 wherein the first layer directly contacts the heater means and is heated when the device is inserted into the heater unit.
- 39. A device according to claim 36 further comprising a step located between the storage means and the housing to provide an alternative engagement of the device with35 the heater unit.

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- 40. A device according to claim 28 such that when the chemical formulation is not in direct contact with the wick means, due to the orientation of the heater unit or the device, the chemical formulation moves along a side of the storage means by capillary action until it reaches the wick means in contact with the storage means, thereby wetting the wick means.
 - 41. A device according to claim 40 wherein the capillary action occurs due to the geometry of a join between the storage means and the wick support means.
- 10 42. A device for enabling a chemical formulation to be vapourized into the atmosphere comprising:

a substrate;

means for storing the chemical formulation;

wick means for contacting the chemical formulation;

a housing enclosing a portion of the wick means;

the wick means, housing and storage means in contact with the substrate and the wick means extending between the housing and the storage means;

wherein the device is releasably insertable into a heater unit having a heater means whereby the substrate is heated by the heater means and thereafter the wick 20 means, wet by the chemical formulation, is heated to vapourize the chemical formulation through an aperture in the housing into the atmosphere.

- 43. A device according to claim 42 wherein the housing is adapted to engage and retain the device in the heater unit.
- 44. A device according to claim 43 wherein the substrate comprises a first layer made from a first material and a second layer made from a second material, the second layer bonded to the first layer.
- 30 45. A device according to claim 44 wherein the housing and the storage means are made from the second material and are bonded to the second layer.
- 46. A device according to claim 45 wherein the wick means is placed on the second layer and the storage means is filled with the chemical formulation prior to the bonding of the storage means and the housing to the second layer of the substrate.

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- 47. A device according to claim 46 wherein the first material is crystalline PET.
- 48. A device according to claim 46 or claim 47 wherein the second material is amorphous PET.
- 49. A device according to claim 46 further comprising an additional layer made from the second material which covers any part of the wick means not covered by the housing or the storage means, the additional layer being bonded to the second layer.
- 10 50. A device according to claim 49 wherein the housing has one or more depressions to keep the wick means in contact with the substrate.
 - 51. A device according to claim 50 wherein the first layer is heated by the heater means, and subsequently the second layer and wet wick means is heated, when the device is inserted into the heater unit.
 - 52. A device according to claim 51 wherein the first layer is heated by convection such that an air gap is defined between the first layer and the heater means when the device is inserted into the heater unit.
- 53. A device according to claim 51 wherein the first layer is in direct contact with the heater means and thereby heated when the device is inserted into the heater unit.
- 54. A device according to claim 52 or claim 53 further comprising a step located between the storage means and the housing to provide an alternative engagement of the device with the heater unit.
 - 55. A device according to claim 42 such that when the chemical formulation is not in direct contact with the wick means, due to the orientation of the heater unit or the device, the chemical formulation moves along a side of the storage means by capillary action until it reaches the wick in contact with the storage means, thereby wetting the wick means.
- 56. A device according to claim 55 wherein the capillary action occurs due to the geometry of a join between the storage means and the substrate.

57. A method of constructing a device for enabling a chemical formulation to be vapourized into the atmosphere, the method comprising the steps of:

forming a substrate comprising a first layer made of a first material;

forming a storage means for the chemical formulation and made from a second material;

forming a housing made from the second material;

placing a wick means on the substrate; and

bonding the storage means and the housing to the substrate such that the wick means is partially enclosed by the housing and extends into the storage means to enable contact with the chemical formulation.

- 58. A method according to claim 57 further comprising the steps of: forming a second layer in the substrate made from the second material; and bonding the second layer to the first layer.
- 59. A method according to claim 58 wherein the step of placing comprises placing the wick means on the second layer of the substrate.
- 60. A method according to claim 59 wherein the step of bonding includes bonding 20 of the storage means and the housing to the second layer.
 - 61. A method according to claim 60 wherein the first material is crystalline PET.
- 62. A method according to claim 60 or claim 61 wherein the second material is amorphous PET.
 - 63. A method according to claim 60 further comprising a step of forming one or more depressions in the housing to keep the wick means in contact with the substrate.
- 30 64. A device for enabling a chemical formulation to be vapourized into the atmosphere formed by any one of the method steps in claims 57 to 63.
 - 65. A device for enabling a chemical formulation to be vapourized into the atmosphere comprising:
- means for storing the chemical formulation; wick means for contacting the chemical formulation;

wick support means in contact with the wick means and proximal to a heater means;

such that when the chemical formulation is not in direct contact with the wick means, due to the orientation of the heater means, the chemical formulation moves along a side of the storage means by capillary action until the chemical formulation reaches the wick means in contact with the storage means, thereby wetting the wick means;

whereupon the wick means is heated indirectly by the wick support means to vapourize the chemical formulation into the atmosphere.

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- 66. A device according to claim 65 wherein the capillary action occurs due to the geometry of a join between the storage means and the wick support means.
- 67. A device for enabling a chemical formulation to be vapourized into the atmosphere comprising:

means for storing the chemical formulation;

wick means for contacting the chemical formulation;

wick support means in contact with the wick means and proximal to a heater means;

such that the wick means extends along an edge joining the storage means and the wick support means whereby the chemical formulation moves along the wick means by capillary action until the chemical formulation reaches an area of the wick means that is heated indirectly by the wick support means to vapourize the chemical formulation into the atmosphere regardless of the orientation of the device.

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